

IN THE SPECIFICATION

At pages 5 and 6, please delete Table 1 in its entirety and replace it with the following amended Table 1.

TABLE 1

Symbol	Meaning	Unit
a	Acceleration	feet/s ²
$a(t)$	Acceleration as a function of time	feet/s ²
$B_i(t)$	brake functions	feet/s ²
$C_l(t)$	Braking effect caused by lateral friction when train is in curve	feet
$C_p(t)$	Braking effect caused by weight increase when train is in curve	feet
D	distance	feet
$D(t)$	dynamic brake	pounds
D_c	degree of a curve (angle for 100 feet of track) ¹	degrees
$E_i(t)$	Elevation function	Feet
F	Force	pounds
g	Gravitational acceleration ($9.82 \text{ m/s}^2 = 32.218 \text{ feet/s}^2$)	Feet/s ²
K_a	Corrective factor for the effect of aerodynamic friction	lbs/feet
K_{bi}	brake function coefficients	no unit
K_d	Corrective factor for the effect of dynamic brake application	no unit
K_{ei}	Corrective factor for the effect of elevation change on segment i of the train	s ⁻²
K_l	Corrective factor for the effect of lateral friction when train is in curve	s ⁻²
K_p	Corrective factor for weight increase when train is in curve	s ⁻²
K_r	Corrective factor for friction of a train rolling on straight horizontal track	feet/s ²
K_{ri}	release function coefficient	no unit
K_{rv}	Dynamic corrective factor for friction of a train rolling on straight horizontal track	s ⁻¹
K_t	Corrective factor for the effect of throttle application	no unit
L	total train length	feet
L_i	length of segment i	feet
l_{ij}	length of the segment i section j of the train	feet
M	total train mass	lbs

¹ The field CURVE in track database.

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Symbol	Meaning	Unit
M_i	mass of segment i	
m_{ij}	mass of the segment i section j of the train	lbs
N_{ax}	Number of powered axles	
$p(t)$	Pressure in brake pipe measured at front locomotive	psi
P_{max}	Maximum pressure in brake pipe	psi
R	curve radius	feet
$R_i(t)$	release functions	feet/s ²
L	train length	feet
$T(t)$	traction force	pounds
v	speed	feet/s
$v(t)$	speed as function of time	feet/s
vd	speed recorded in database	feet/s
W	total train weight	lbs
w_{ij}	weight of the segment i section j of the train	lbs